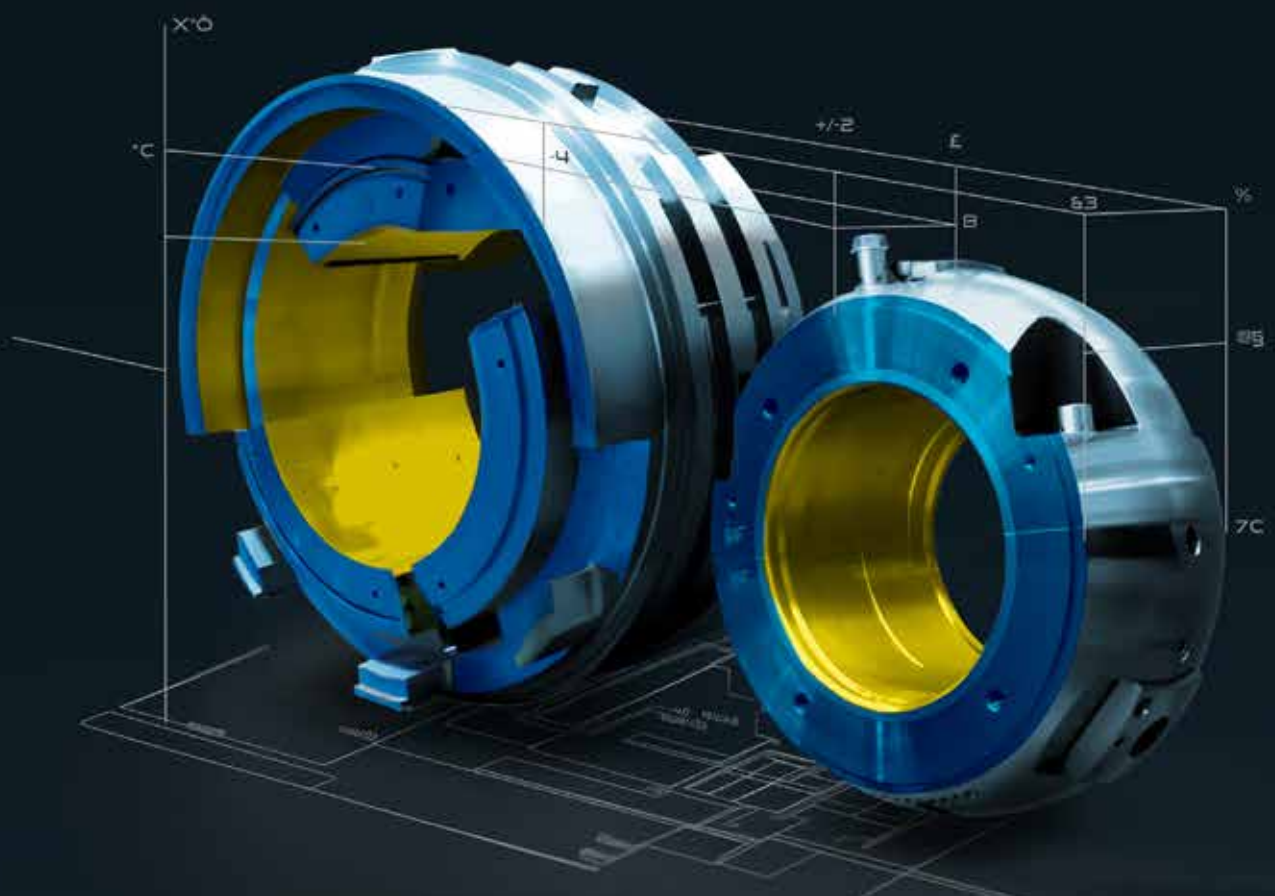
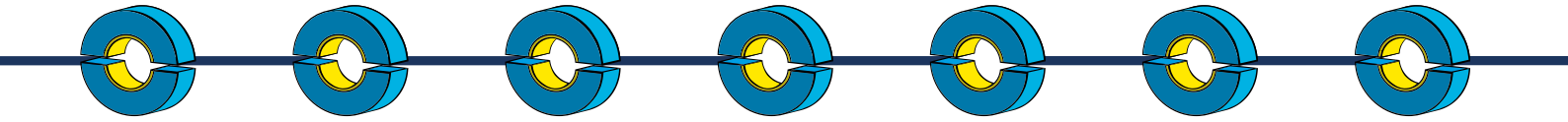
EURO BEARINGS

DRIVES THE EXCELLENCE OF DYNAMIC



HISTORY



EUROBEARINGS: Specialized Solutions for Anti-Friction Bearings

Founded in **1996** thanks to specific manufacturing expertise, EUROBEARINGS excels in the design and manufacture of custom-made tin alloy anti-friction bearings. **Our primary application area is the power generation industry**, where we supply bearings, sealing systems, and complete bases for turbines (steam, gas, and hydro) and turbo/hydrogenerators. We also extend **our expertise to gearboxes, marine diesel engines, and rolling mills**.

Experience and Innovation

In addition to operating as a build-to-print and build-to-spec manufacturer, we are a reliable partner to OEMs and end users. The company has over thirty years of practical experience in the remanufacturing and rehabilitation of bearings and associated systems, particularly in the hydroelectric sector (distributors, injectors, shaft seals).

Expansion and Technology

Our dynamic business model, focused on complete customer satisfaction, has led to expansion into mechanical processing and related services. We are at the forefront of innovation: we have **developed patents** for the application of **advanced polymer coatings** (such as PEEK and PTFE) and for **laser cladding** (Additive Manufacturing).

Global Growth and Sustainability

After consolidating our presence in Europe and North America, in 2025 we completed the acquisition of the subsidiary EUB INDIA, a key player in the Eastern market. In 2023, we moved to a new facility to optimize the factory layout and improve logistics and production efficiency.
Since 2025, **our Integrated Management System (IMS) has been comprehensive in every aspect**.
ISO 9001 (Quality), **ISO 14001** (Environment), and **ISO 45001** (Health and Safety) certifications demonstrate our commitment to creating **a unique operating platform**.
These values demonstrate to our customers and partners that **operational excellence, environmental responsibility and human resources**, managed synergistically, **are at the heart of every decision**.

MISSION & VISION

Building increasingly performing bearings that drive the EXCELLENCE OF DYNAMIC trough by investing in people, knowledge and technologies

COMPANY

Drives the excellence of dynamic

Since 1996, Eurobearings (EUB) has supplied tin based antifriction alloy coatings for the Power Generation market.
Close collaboration with clients and constant research and development efforts over the years have led EUB to further refine its engineering and manufacturing capabilities. Today, know-how and motivation are the EUB's reliable means to provide high-quality competitive solutions. From the single bearing to the complete support.

Customer's satisfaction, the mission
Precedes future, the challenge

LASER CLADDING TECNOLOGY

Large-Scale Metal 3D Printing

A cost-effective wire laser metal deposition technology.
LMD is a Directed Energy Deposition (DED) process that functions by precisely stacking layers of weld beads when introduced into the laser-generated melt pool

- Extend process technology for babbitt material
- Differentiate the production manufacturing: Cladding (Coating layer)
- Additive Manufacturing

Safe and Reliable **Integration Ready** **Cost Efficient** **Accessible**

ENGINEERING DEPARTMENT

During the years, Eurobearings has developed and improved its engineering ability.
Eurobearing engineering department offers different activities:

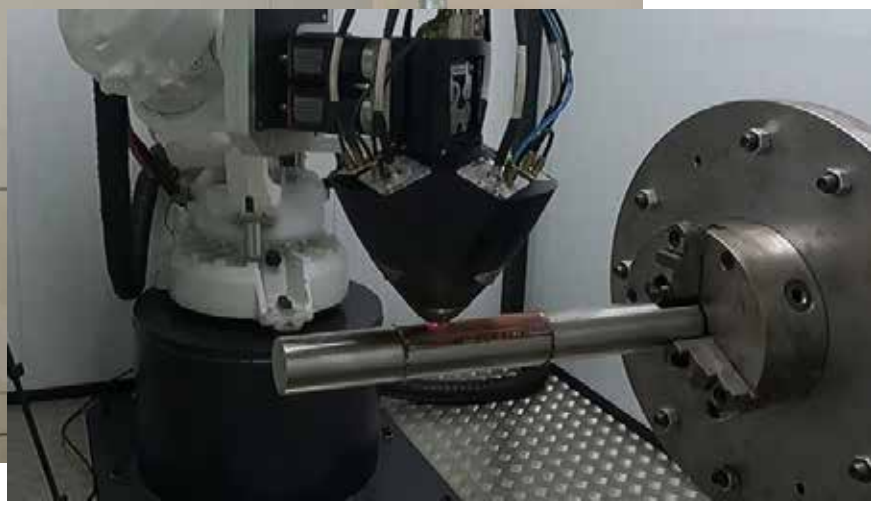
- Reverse engineering: reverse engineering of "old " bearings with 3D technologies;
- Basic hydrodynamic calculation: brief calculation to estimate bearing dimensions and performance;
- Complex hydrodynamic calculations to define the bearing behavior (thermal/pressure field, film thickness and dynamic coefficients)..
- Full CFD and FEM calculations
- Thrust and journal bearing design: geometrical design of sliding bearings thank to Autodesk Inventor;
- Housing and pedestal design, failure analysis and upgrading of existing bearings.

RESEARCH & DEVELOPMENT

EUB engineering team have developed an invention that gives continuity to the Research and Development carried out in previous years, exploiting the collaboration with the Mechanical Department of Mechanical Engineering in Politecnico of Milan.

Patented innovations are referring to innovative system for **anchoring PEEK material to iron substrate and thermally insulating a temperature probe**, completely embedded in the polymeric layer and attaching a conductive element to it which is in direct contact with the external surface, and therefore with the oil or water.

Additionally, the researches have designed a **test rig for running simulation** to validate bearing calculation and study the rotor behaviour, improving tool to calculate the system criticism (eg. damping and stiffness coefficients), taking in consideration viscosity variation due to change in temperature based on Reynolds equation.



EUROBEARINGS PROCESSES

GRAVITY

CENTRIFUGATION

BRAZING

LASER CLADDING

EUROBEARINGS CAPABILITIES

CENTRIFUGAL CASTING MACHINE:
Diam: 150mm - 2170mm
Length: 1400mm

CENTRIFUGAL CASTING MACHINE:
Diam: 150mm - 1500mm
Length: 1000mm

GRAVITY CASTING MACHINE:
Dim X: 500mm - Dim Y: 1280mm
Weight max: 1000kg

MACHINING CENTER 5 AXIS MANDELLI SPARK 1600:
AXIS XYZ: 1600mm - 1400mm - 1400mm

MILLING/BORING MACHINE 5 AXIS MANDELLI 1200:
AXIS XYZ: 2800mm - 1300mm - 1300mm

MACHINING CENTER 4 AXIS MANDELLI 1500:
AXIS XYZ: 2800mm - 1500mm - 1500mm

MACHINING CENTER 4 AXIS VARNSDORF TOS:
AXIS XYZ: 4000mm - 2500mm - 2000mm

VERTICAL LATE SAMU RS 17:
AXIS XZ: 2800mm - 1025mm
MAX HEIGHT: 1500mm

VERTICAL LATE SAMU RS 22:
AXIS XZ: 1600mm - 1200mm
MAX HEIGHT: 1500mm

DRILLING MACHINE SASS:
AXIS XY: 1790mm - 1000mm

SAWING MACHINE RIBONI LPS 60-T:
AXIS XY: 1260mm - 720mm

CMM DEA GAMMA:
AXIS XYZ: 1500mm - 1000mm - 600mm

CMM LK ALTERA M:
AXIS XYZ: 1500mm - 1200mm - 1000mm

HOYTOM HM-S LOAD CELL:
Bonding test capability as per ISO4368/2
50 kN Load Cell

INTERNAL METALLURGIC LAB:
metallographic replicas
micrographic examinations

ULTRASONIC EQUIPMENT

MAGNETIC EQUIPMENT

CENTRIFUGAL CASTING MACHINE:
Diam: 150mm - 1500mm
Length: 5000mm

GRAVITY CASTING MACHINE:
Dim X: 1000mm - Dim Y: 1280mm
Weight max: 1000kg

MILLING/BORING MACHINE 5 AXIS LAZZATI:
AXIS XYZ: 4000mm - 2000mm - 8000mm

MILLING/BORING MACHINE 5 AXIS LAZZATI:
AXIS XYZ: 3000mm - 15000mm - 1200mm

VERTICAL BAND SAW MACHINE:
L -5200mm, W-2800mm, H-4500

MILLING VMC BFW:
AXIS XYZ: 1100mm - 500mm - 600mm

VERTICAL LATHE SAMU RS:
AXIS XZ: 2100mm - 1500mm

VERTICAL BAND SAW MACHINE:
L -5200mm , W-2800mm, H-4500

SHOT BLASTING MACHINE (SB-01):
L 3000mm, W 3000mm, H 4500mm

HEAT TREATMENT FURNACE:
L 1500mm, W 1500mm, H 1000mm

CERTIFICATIONS

Certificate of Approval

EUROBEARINGS Srl

Quality & Certifications

EUROBEARINGS has in place a Integrated Management System (IMS), which already includes ISO 9001 (Quality) Certification, ISO 14001 (Environment) and ISO 45001 (Occupational Health and Safety).
This is not just a formal achievement, but the consolidation of company vision:

1. Quality: Ensure maximum customer satisfaction through efficient processes.
2. Environment: Reduce our environmental impact and promote sustainability.
3. Safety: Protect the health and well-being of all our employees.

An IMS supporting ESG Commitment (ECOVADIS Ranking).
This robust Integrated System is the backbone of 360° commitment to ESG (Environmental, Social, Governance) sustainability.

INTEGRATED MANAGEMENT SYSTEM

ISO 9001:2015 ISO 14001:2015 ISO 45001:2018

Quality team works in collaboration with production department in order to ensur high standard quality for its products and with customers to certify the entire supply.

Quality team includes skilled operators level II and III for UT, PT, MT, VT.

EUROBEARINGS INDIA

The Indian subsidiary of Eurobearings, based in the highly industrialized area of FARIDABAD, near New Delhi, has been incorporated on the 8th August 2014 with the objective to cover the growing local demand of bearings for power energy industry.

Equipped with this following technologies and post processing, EUB India can support the Customer with technical support coming from more than 30 years of experience manufacturing bearings, to evaluate, and analyze the bearing condition during the turbines shut down.

Moreover, EUB India can manufacture a new complete bearing systems or reverse engineering of parts, components or of the entire bearing, as well as complete design and the calculation of the dynamic coefficients

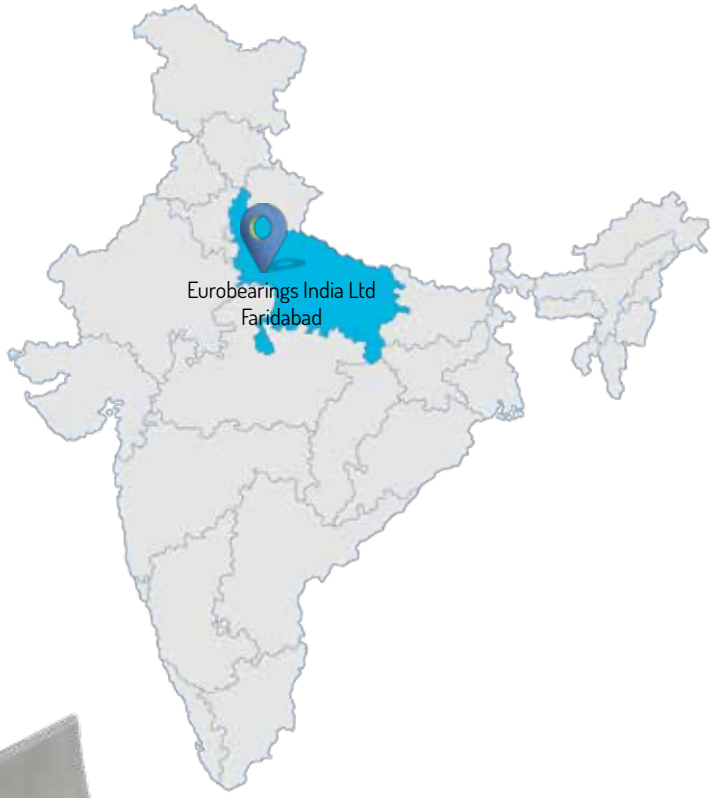
CORPORATE STRUCTURE

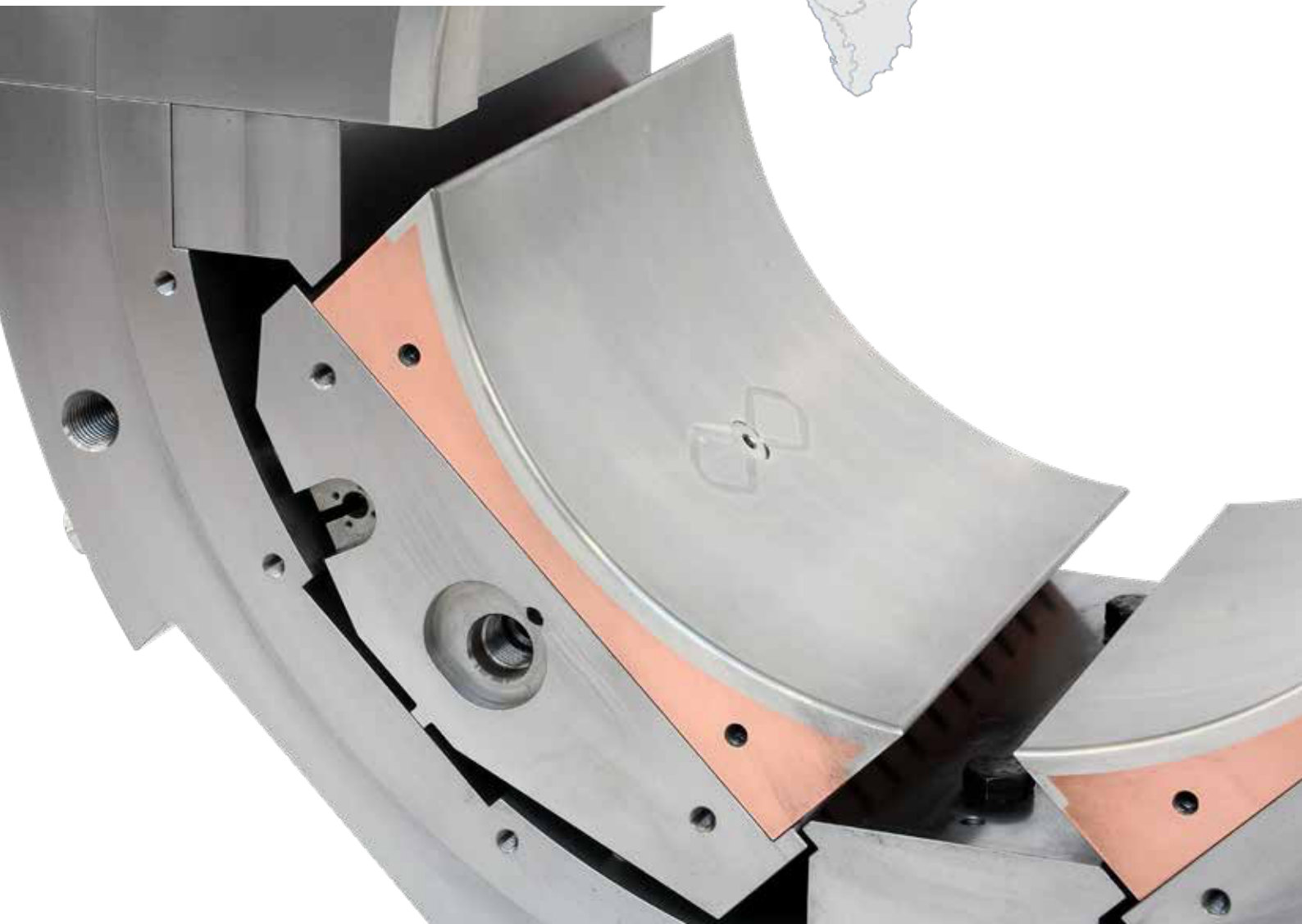
Italian headquarters

Eurobearing operates in a rented facilities, located in CORTEMAGGIORE (PC),
Covering a total area of around 4,500 sqm, were it employs 40 people

Eurobearings India

The Indian subsidiary of Eurobearings, based in the highly industrialized area of FARIDABAD, near New Delhi
Eurobearings India covers 15000 sq ft with its plant area and 5000 sq ft in office area, were it employs 30 peoples





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